PTO/SB/21 (09-04)

Approved for use through 07/31/2006. OMB 0651-0031 U.S. Patent and Trademark Office: U.S. DEPARTMENT OF COMMERCE

TRANSMITTAL **FORM**

(to be used for all correspondence after initial filing)

Application Number 10/686,221 6364 Confirmation Number 10/15/2003 Filing Date First Named Inventor Joseph Michael Christie Art Unit 2664 **Examiner Name**

Under the Paperwork Reduction Act of 1995, no persons are required to respond to a collection of information unless it displays a valid OMB control number.

Total Number of Pages in This Submiss	on 209	Attorney Docket N	umber	1110d		
	ENCL	OSURES (check all the	at apply)			
Fee Transmittal Form	Drawing(s)			After Allowance Communication to TC		
Fee Attached	Licensin	g-related Papers	, ,	Appeal Communication to Board of Appeals and Interferences		
Amendment / Reply	Petition		•	Appeal Communication to TC (Appeal Notice, Brief, Reply Brief)		
After Final		to Convert to a nal Application		Proprietary Information		
Affidavits/declaration(s)		of Attorney, Revocation of Correspondence Add	Iress	Status Letter		
Extension of Time Request	Termina	ll Disclaimer		Other Enclosure(s) (please identify below):		
Express Abandonment Request	Request for Refund CD, Number of CD(s)			14 foreign patents; 3 non patent literature documents; and return receipt postcard		
Information Disclosure Statement		andscape Table on CD				
Certified Copy of Priority Document(s) Reply to Missing Parts/			Commissio	are due in this matter. However, if it is oner is authorized to debit Deposit		
Incomplete Application Reply to Missing Parts under 37 CFR1.52 or 1.53	I hereby state that each item of information contained in this Information Disclosure Statement is being filed before the mailing date of a first Office Action on the merits pursuant to 37 CFR 1.97(b).					
SIGI	IATURE OF	APPLICANT, ATTO	RNEY, OF	RAGENT		
Firm	Setter Ollila L	rc		\ .		
Signature						
Printed Name	Stephen S. R	oche				
Date	12-20	-05	Reg. No.	52,176		

CERTIFICATE OF TRANSMISSION/MAILING

I hereby certify that this correspondence is being deposited with the United States Postal Service with sufficient postage as first class mail in an envelope addressed to: Mail Stop Amendment, Commissioner for Patents, P.O. Box 1450, Alexandria, VA 22313-1450 on the date shown below.

Signature	Jamie Comoron	· -	
Typed or printed name	Jamie Cameron	Date	12.20-05
	•	•	

This collection of information is required by 37 CFR 1.5. The information is required to obtain or retain a benefit by the public which is to file (and by the USPTO to process) an application. Confidentiality is governed by 35 U.S.C. 122 and 37 CFR 1.11 and 1.14. This collection is estimated to 12 minutes to complete, including gathering, preparing, and submitting the completed application form to the USPTO. Time will vary depending upon the individual case. Any comments on the amount of time you require to complete this form and/or suggestions for reducing this burden, should be sent to the Chief Information Officer, U.S. Patent and Trademark Office, U.S. Department of Commerce, P.O. Box 1450, Alexandria, VA 22313-1450. DO NOT SEND FEES OR COMPLETED FORMS TO THIS ADDRESS. SEND TO: Commissioner for Patents, P.O. Box 1450, Alexandria, VA 22313-1450.

PTO/SB/08a (08-03)
Approved for use through 07/31/2006. OMB 0651-0031
U.S. Patent and Trademark Office; U.S. DEPARTMENT OF COMMERCE
Under the Paperwork Reduction Act of 1995, no persons are required to respond to a collection of information unless it contains a valid OMB control number.

Substitute for form 1449A/PTO INFORMATION DISCLOSURE STATEMENT BY APPLICANT (Use as many sheets as necessary)

Sheet

Complete if Known					
Application Number 10/686,221					
Filing Date	10/15/2003				
First Named Inventor	Joseph Michael Christie				
Art Unit	2664				
Examiner Name					
Attorney Docket Number	1110d				

			U.S. PATENT I	DOCUMENTS	<u> </u>
Examiner Initials *	Cite No.1	Document Number Number - Kind Code ² (if known)	Publication Date MM-DD-YYYY	Name of Patentee or Applicant of Cited Document	Pages, Columns, Lines, Where Relevar Passages or Relevant Figures Appear
	1	US- 4,720,850	01/19/1988	Oberlander et al.	rigures Appear
	2	US- 4,730,312	03/08/1988	Johnson et al.	* * *
	3	US- 4,736,364	04/05/1988	Basso et al.	
	4	US- 4,748,658	05/31/1988	Gopal et al.	
	5	US- 4,757,526	07/12/1988	Foster et al.	
	6	US- 4,763,317	08/09/1988	Lehman et al.	
	7	US- 4,853,955	08/01/1989	Thorn et al.	
	8	US- 5,003,584	03/26/1991	Benyacar et al.	
	9	US- 5,048,081	09/10/1991	Gavaras et al.	
	10	US- 5,051,983	09/24/1991	Kammerl	
	11	US- 5,089,954	02/18/1992	Rago	
	12	US- 5,115,427	05/19/1992	Johnson, Jr. et al.	
	13	US- 5,185,743	02/09/1993	Murayama et al.	•
	14	US- 5,204,857	04/20/1993	Obara	
	15	US- 5,251,255	10/05/1993	Epley	
	16	US- 5,258,979	11/02/1993	Oomuro et al.	
	17	US- 5,271,010	12/14/1993	Miyake et al.	
	18	US- 5,274,635	12/28/1993	Rahman et al.	
	19	US- 5,282,244	01/25/1994	Fuller et al.	
	20	US- 5,289,472	02/22/1994	Cho	
_	21	US- 5,291,492	03/01/1994	Andrews et al.	
	22	US- 5,327,421	07/05/1994	Hiller et al.	
	23	US- 5,339,318	08/16/1994	Tanaka et al.	•
	24	US- 5,345,443	09/06/1994	D'Ambrogio et al.	
	25	US- 5,345,445	09/06/1994	Hiller et al.	
	26	US- 5,345,446	09/06/1994	Hiller et al.	
	27	US- 5,363,433	11/08/1994	Isono	
	28	US- 5,375,124	12/20/1994	D'Ambrogio et al.	
	29	US- 5,377,186	12/27/1994	Wegner et al.	
	30	US- 5,392,402	02/21/1995	Robrock, II	
-	31	US- 5,420,858	05/30/1995	Marshall et al.	
	32	US- 5,422,882	06/06/1995	Hiller et al.	-
_				Orriss	
	33	US- 5,425,090	06/13/1995		
	34	US- 5,428,609	06/27/1995	Eng et al.	
	35	US- 5,434,852	07/18/1995	La Porta et al.	
	36	US- 5,434,981	07/18/1995	Lenihan et al.	
	37	US- 5,438,527	08/01/1995	Feldbaumer et al.	
	38	US- 5,440,626	08/08/1995	Boyle et al.	
	39	US- 5,444,713	08/22/1995	Backaus et al.	
	40	US- 5,452,297	09/19/1995	Hiller et al.	
	41	US- 5,452,350	09/19/1995	Reynolds et al.	
	42	US- 5,457,684	10/10/1995	Bharucha et al.	
	43	US- 5,459,722	10/17/1995	Sherif	
-	44	US- 5,469,501	11/21/1995	Otsuka	
	45	US- 5,473,677	12/05/1995	D'Amato et al.	
	46	US- 5,473,679	12/05/1995	La Porta et al.	
	47	US- 5,483,527	01/09/1996	Doshi et al.	

PTO/SB/08a (08-03)

Approved for use through 07/31/2006. OMB 0651-0031

U.S. Patent and Trademark Office; U.S. DEPARTMENT OF COMMERCE

Under the Paperwork Reduction Act of 1995, no persons are required to respond to a collection of information unless it contains a valid OMB control number.

Substitute for form 1449A/PTO Complete if Known Application Number 10/686,221 **INFORMATION DISCLOSURE** Filing Date 10/15/2003 STATEMENT BY APPLICANT First Named Inventor Joseph Michael Christie 2664 Art Unit (Use as many sheets as necessary) Examiner Name 1110d

Attorney Docket Number

Sheet

			U.S. PATENT [JOCUMEN 13	
Examiner Initials *	Cite No.1	Document Number Number - Kind Code² (if known)	Publication Date MM-DD-YYYY	Name of Patentee or Applicant of Cited Document	Pages, Columns, Lines, Where Relevan Passages or Relevant
	48	US- 5,495,484	02/27/1996	Self et al.	Figures Appear
	49	US- 5,509,010	04/16/1996	La Porta et al.	
	50	US- 5,519,707	05/21/1996	Subramanian et al.	•
	51	US- 5,519,690	05/21/1996	Suzuka et al.	
	52	US- 5,530,724	06/25/1996	Abrams et al.	
	53	US- 5,537,461	07/16/1996	Bridges et al.	
	54	US- 5,541,917	07/30/1996	Farris	
	55	US- 5,550,834	08/27/1996	D'Ambrogio et al.	
	56	US- 5,550,914	08/27/1996	Clarke et al.	
	57	US- 5,563,939	10/08/1996	La Porta et al.	
	58	US- 5,566,173	10/15/1996	Steinbrecher	
	59	US- 5,568,475	10/22/1996	Doshi et al.	
	60	US- 5,577,037	11/19/1996	Takatori et al.	
	. 61	US- 5,579,311	11/26/1996	Chopping et al.	
	62	US- 5,592,477	01/07/1997	Farris et al.	,
	63	US- 5,600,643	02/04/1997	Robrock, II	
	64	US- 5,619,561	04/08/1997	Reese	
	65	US- 5,623,491	04/22/1997	Skoog	
	66	US- 5,635,980	06/03/1997	Lin et al.	
;-	67	US- 5,640,446	06/17/1997	Everett et al.	
	68	US- 5,673,262	09/30/1997	Shimizu	
	69	US- 5,689,550	11/18/1997	Garson et al.	
··	70	US- 5,706,286	01/06/1998	Reiman et al.	
	71	US- 5,765,108	06/09/1998	Martin et al.	
	72	US- 5,784,371	07/21/1998	lwai	
	1		08/11/1998	Boer et al.	
	73	US- 5,793,765			
	74	US- 5,825,780	10/20/1998	Christie	
	75	US- 5,872,785	02/16/1999	Kienberger	
	76	US- 5,991,301	11/23/1999	Christie	
	77	US- 5,999,594	12/07/1999	Mizoguchi et al.	
	78	US- 6,175,574	01/16/2001	Lewis	
	79	US- 6,181,703	01/30/2001	Christie et al.	
	80	US- 6,324,179	11/27/2001	Doshi et al.	
	 				
	 				
· ·	 		,		
	 				
•	 			 	
	[
	↓	·			·
	.		· · · · · · · · · · · · · · · · · · ·		
	1			1	

Approved for use through 07/31/2006. OMB 0651-0031 U.S. Patent and Trademark Office; U.S. DEPARTMENT OF COMMERCE

Under the Paperwork Reduction Act of 1995, no persons are required to respond to a collection of information unless it contains a valid OMB control number.

Substitute	ite for form 1449A/PTO			Complete if Known		
			•	Application Number	10/686,221	
INFO	RMATION	N DIS	CLOSURE	Filing Date	10/15/2003	
STAT	EMENT I	BY AF	PLICANT	First Named Inventor	Joseph Michael Christie	
				Art Unit	2664	
	(Use as many s	heets as i	necessary)	Examiner Name		
Sheet	3	of	4	Attorney Docket Number	1110d	

FOREIGN PATENT DOCUMENTS									
Examiner Initials*	Cite No. ¹	Foreign Patent Document Country Code ³ - Number ⁴ - Kind Code ⁵ (<i>if known</i>)	Publication Date MM-DD-YYYY	Name of Patentee or Applicant of Cited Document	Pages, Columns, Lines, Where Relevant Passages or Relevant Figures Appear	T ⁶			
	81	EP0439098	07/31/1991	Tanabe et al.					
	82	WO9214321	08/20/1992	Takase et al.					
	83	JP2215247	08/28/1990	Tsuboi et al.					
	84	JP1300738 .	12/05/1989	Suzuki et al.					
	85	JP1013534	01/18/1989	Kamio et al.					
	86	JP4180324	06/26/1992	Atsushi et al.					
	87	JP4196635	07/16/1992	Osahide .		٠			
	88	JP5327751	12/10/1993	Hyodo et al.					
•	89	JP6006320	01/14/1994	Baba et al.					
	90	JP6209365	07/26/1994	Toshiro et al.					
	91	JP7250099	09/26/1995	Koshiro et al.					
	92	JP8149137	06/07/1996	Nakajima et al.					
	93	HU71152	11/28/1995	Hiller et al.					
	94	EP0935856	08/18/1999	Christie et al.					
	<u> </u>					<u> </u>			
						 			
						 			
					<u> </u>	 			
		<u> </u>			·	 			
	<u> </u>								
	<u> </u>	·				ļ			
	<u> </u>								
		· .	i						
	 					i –			
					<u> </u>	 			
	-				<u> </u>	 			
	-					-			

Examiner Signature	Date Considered	

This collection of information is required by 37 CFR 1.97 and 1.98. The information is required to obtain or retain a benefit by the public which is to file (and by the USPTO to process) an application. Confidentiality is governed by 35 U.S.C. 122 and 37 CFR 1.14. This collection is estimated to take 2 hours to complete, including gathering, preparing, and submitting the completed application form to the USPTO. Time will vary depending upon the individual case. Any comments on the amount of time you require to complete this form and/or suggestions for reducing this burden, should be sent to the Chief Information Officer, U.S. Patent and Trademark Office, U.S. Department of Commerce, P.O. Box 1450, Alexandria, VA 22313-1450. DO NOT SEND FEES OR COMPLETED FORMS TO THIS ADDRESS. SEND TO: Commissioner for Patents, P.O. Box 1450, Alexandria, VA 22313-1450.

^{*}EXAMINER: Initial if reference considered, whether or not citation is in conformance with MPEP 609. Draw line through citation if not in conformance and not considered. Include copy of this form with next communication to applicant. \(^1\) Applicant's unique citation designation number (optional). \(^2\) See Kinds Codes of USPTO Patent Documents at www.uspto.gov or MPEP 901.04. \(^3\) Enter Office that issued the document, by the two-letter code (WIPO Standard ST.3). \(^4\) For Japanesse patent documents, the indication of the year of the reign of the Emperor must precede the serial number of the patent document. \(^5\) Kind of document by the approximate symbols as indicated on the document under WIPO Standard ST. 16 if possible. \(^6\) Applicant is to place a check mark here if English language Translation is attached.

PTO/SB/08b(08-03)

Approved for use through 07/31/2006. OMB 0651-0031

U.S. Patent and Trademark Office; U.S. DEPARTMENT OF COMMERCE

Under the Paperwork Reduction Act of 1995, no persons are required to respond to a collection of information unless it contains a valid OMB control number

	Substitute for form 1449B/PTO					Complete if Known
	INICO	DAGATIÓN	DIC	CL OCUDE	Application Number	10/686,221
	INFORMATION DISCLOSURE				Filing Date	10/15/2003
	STATEMENT BY APPLICANT (Use as many sheets as necessary)			PPLICANT	First Named Inventor	Joseph Michael Christie
				•	. Art Unit	2664
				necessary)	Examiner Name	
$\overline{}$	Sheet	4	of	4	Attorney Docket Number	1110d

		NON PATENT LITERATURE DOCUMENTS	T			
Examiner Initials *	Cite No.1	Include name of the author (in CAPITAL LETTERS), title of the article (when appropriate), title of the item (book, magazine, journal, serial, symposium, catalog, etc.), date, page(s), volume-issue number(s), publisher, city and/or country where published.				
	95	KURIBAYASHI, SHIN-ICHI; Advanced Signaling Protocol for Broadband ISDN Services; Electronics and Communications in Japan; Part 1, Volume 78, Number 1, Pages 1-12.				
	96	Hungarian office action dated June 23, 1999 citing Hungarian patent number HU170127 for Hungarian Application No. P9900232; 2 pages.	,			
	97	Russian office action dated April 22, 2002 citing Russian patent numbers RU2013011 and RU2007880 for Russian Application No. 99112956; 6 pages.				

$\overline{}$	 	
Examiner	Date	
Signature	Considered	

^{*}EXAMINER: Initial if reference considered, whether or not citation is in conformance with MPEP 609. Draw line through citation if not in conformance

and not considered. Include copy of this form with next communication to applicant.

Applicant's unique citation designation number (optional). Applicant is to place a check mark here if English language Translation is attached. This collection of information is required by 37 CFR 1.98. The information is required to obtain or retain a benefit by the public which is to file (and by the USPTO to process) an application. Confidentiality is governed by 35 U.S.C. 122 and 37 CFR 1.14. This collection is estimated to take 120 minutes to complete, including gathering, preparing, and submitting the completed application form to the USPTO. Time will vary depending upon the individual case. Any comments on the amount of time you require to complete this form and/or suggestions for reducing this burden, should be sent to the Chief Information Officer, U.S. Patent and Trademark Office, U.S. Department of Commerce, P.O. Box 1450, Alexandria, VA 22313-1450. DO NOT SEND FEES OR COMPLETED FORMS TO THIS ADDRESS. SEND TO: Commissioner for Patents, P.O. Box 1450, Alexandria, VA 22313-1450.